OMNI SB1

Voice-Optimizing Wireless
Sound Bar System

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Omni SB1

Voice-optimizing Wireless Sound Bar System

The Omni SB1 with Polk VoiceAdjust™ Technology is a voice-optimizing 3.1 sound bar system that creates a broad, enveloping soundstage for movies, music and more. The SB1's VoiceAdjust Technology utilizes the optimized 3-speaker array with controllable voice channel level to reproduce clear, crisp dialogue. The included 8" wireless subwoofer gives the SB1 system a rich bottom end while eliminating the clutter of wires.

Music and Movie Immersion Modes enable you to tailor the bar's sound field for a more immersive listening experience. Polk's exclusive Full Complement Bass Technology lets the bar reproduce its lowest range easily, creating a warm, bass-rich timbre at lower distortion and higher volumes.

SmartBar™ enables your sound bar to learn your TV's original IR remote control commands so you can control your soundbar with your TV remote. (Backup remote included.) Dolby Digital decoding includes Dolby Digital 5.1 and 2.0.

The Polk Omni Collection

Your Omni SB1 wireless soundbar is part of the Polk Omni Collection, the First Great-Sounding Wireless Music System™. The Omni SB1 can be used as a stand-alone wireless soundbar system or as part of a family.

With the Omni Collection, you can effortlessly enjoy Polk's signature sound anywhere or everywhere in your home; Start with one and then add throughout your home. Stream your favorite music services, internet radio and your personal digital music library all from your smartphone, tablet or computer.

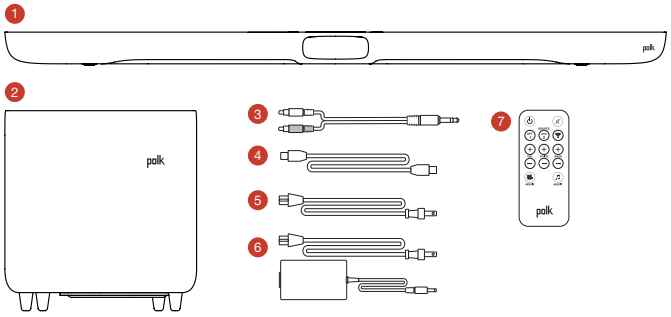
And because you can mix and match speakers with the open DTS Play-Fi® technology standard, future-proofing your technology has never been easier. Equipped with Polk's widely respected signature sound and a simple setup, you're ready to listen to your favorite music right out of the box.

Unpacking your SB1

Please unpack the components carefully, removing the subwoofer first as indicated on the carton and then the sound bar.

We recommend saving all cartons and packing materials in case you move, or should you need to ship your SB1.

What's in the Box



1. Sound bar
2. Subwoofer
3. 8' analog stereo cable (3.5mm)
4. 6' optical cable
5. Subwoofer power cable
6. Sound Bar power cables (6' power supply; 8' power cable)
7. Remote control (battery included)

Getting Started

Your Home Network

In general, Wi-Fi is the wireless streaming of data over a network. Here, Wi-Fi audio is the streaming of music throughout a home network by connecting multiple speakers and/or devices together. The controller for the Polk Omni Collection is the Polk Omni App, which sends music information to each DTS Play-Fi enabled speaker or device.

System Requirements

It all begins by building a wireless home network, preferably one with a high-speed Internet connection. Here's what you'll need to connect your SB1 to your network:

- A Wireless Network connected to the internet with an 802.11g router or better*.
- An Android device with version 2.2 operating system or newer OR an iOS device with version 6.0 operating system or newer.
- The password for your wireless network (if required).

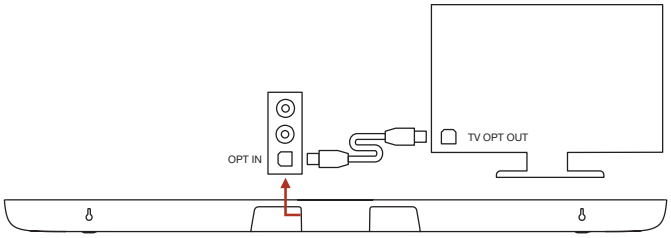
*Router type is usually listed on the router, itself. Please call the Polk Preferred Services @ 1-800-638-7276 for further questions related to router type.

For The Best DTS Play-Fi Experience

To ensure your system is operating under the best environment possible, here are a few additional tips:

- For the fastest streaming performance, especially when connecting to multiple speakers simultaneously, an 802.11n router or better is recommended.
- Ensure the DTS Play-Fi device is within wireless reach of your router, or that the signal is not hindered by concrete, brick, or other dense walls. The quality of your connection can be observed in the Polk Omni App by the Wireless Strength icon.

Hooking Up the SB1 to your TV



You likely have many sources for your audio signal: your TV, your DVD player or a cable/satellite box. The bar is able to accept audio from up to three different sources. The simplest approach is to connect the optical audio output from your TV to the optical input on the back of the SB1 bar. This connection will provide the highest quality audio regardless of whether you are watching TV or DVD. If your TV does not have an optical output, you can use the optical output from your DVD player or your cable/satellite box to connect directly to the optical input on the SB1 bar.

Bar Controls

⏻	Power On/Off	+ BASS −	Increase/Decrease Bass
⇄	Source Select	▶II	Play/Pause
+ VOLUME −	Increase/Decrease Volume	(wifi)	Wi-Fi Setup
+ VOICE −	Increase/Decrease Voice Volume		

Power, Source/Learn, Master Volume, Center Channel Volume, Subwoofer Volume, Mute, Wi-Fi Pair/Connect. These settings can also be adjusted using the included IR remote control; movie and music listening modes are selected only from the remote control.

Front:

1. **Power**—Turns on the bar or puts it in standby mode.
2. **Source/Learn**—Puts the bar into "learning mode" so you can program it to respond to commands from your TV's IR remote control. Source/Learn also changes which input source you are listening to.
   Source 1: digital/optical
   Source 2: analog
   Source 3: Wi-Fi ( ): Wi-Fi® wireless
3. **Master Volume Up and Down (+ /-)**—Adjusts the volume of the SB1 Sound Bar Sound bar.
4. **Voice Volume Up and Down (+ /-)**—Adjusts the volume of the SB1 Sound Bar Sound bar center channel.
5. **Bass Up and Down (+ /-)**—Adjusts the volume of the SB1 Sound Bar Sound bar subwoofer.
6. Mute—Mutes and unmutes the sound coming from the sound bar.
7. **WiFi –** Pairs and connects with a WiFi enabled device (See "Wi-Fi Setup" above).

Back:

1. **Power Switch**—Turns the bar on or off, but you can leave it on all the time.
2. **Power Connection**—The bar power supply connects here.
3. **Audio Inputs (Source 1 Optical, 2 AUX, or 3 Wi-Fi)**—Where you connect your TV (or other sources) to the sound bar. Source 3 (Wi-Fi) is a wireless connection. For "wired" connections, use the 6' optical cable (Source 1) provided or 1/8" analog cable (Source 2) provided.
4. **Sub Out –** Connect an additional subwoofer here.
5. **SYNC**—The SYNC button ensures the subwoofer and bar are communicating.

Note: If the SB1 system ever loses power, the system will default to "Standby" when power is restored.

Subwoofer Controls

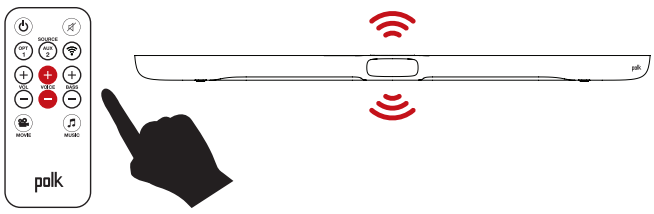
1. **Power Switch**—Turns the wireless subwoofer on or off, but you can leave it on all the time if you wish.
2. **Power Connection**—The subwoofer power cord connects here.

The status light on the wirelesssubwoofer indicates the following:

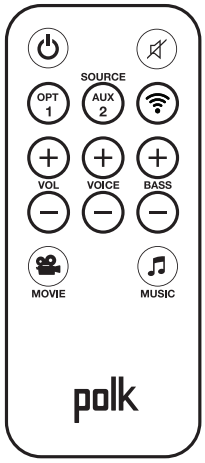
a. **Green Steady**—The bar and subwoofer are connected.
b. **Green Slow Blinking**—The subwoofer is searching for the bar.
c. **Green Fast Blinking**—The subwoofer is in the process of connecting with the bar.
a. **Red Steady**—The subwoofer is in standby mode.
b. **Red Blinking**—The subwoofer is in protection mode.

VoiceAdjust™ Technology

Your SB1 Sound Bar Sound bar has a dedicated center channel, which you control from either the bar or the remote control. By controlling the volume of the center channel, you can make movie or television dialogue louder and more intelligible.



Remote Control



Power— Turns on the bar or puts it in standby mode.
Mute— Mutes and unmutes the sound coming from the sound bar.
Source 1, 2, WiFI — Changes which input source you are listening to.
Master Volume Up and Down (+ / –) Adjusts the master volume of the system.
Center Volume Up and Down (+ / –) Adjusts the volume of the center channel.
SUB Volume Up and Down (+ / –) Adjusts the volume of the subwoofer.
Movie/Music Select—Tailors the audio for either movies or music.

IR Remote Learning

Set Up Your TV's IR Remote Control For SmartBar™ Learning

Note: For your sound bar to respond to your remote control, you MUST FIRST program the bar to respond to your television's original IR (Infra-Red) remote. An RF (Radio Frequency) remote will not work. Other remotes (cable, satellite) will work only after you have programmed the bar to respond to the TV's IR remote.

Programming Instructions:
Your sound bar is currently programmed to respond to the remote control that is included with the product. However, we strongly recommend programming the sound bar to also respond to your existing remote control using the steps illustrated below. This will enable you to operate all of your components using a single remote control. While programming the sound bar, ignore anything that may be displayed on the TV screen.

Example: To teach your bar the "Volume Up" command of your remote control.

1. The Sound Bar is turned on and the LED is dim red, and you have sound coming from the bar.
2. Press and hold the "SOURCE/LEARN" button (on either the bar or the included remote) for 5 seconds. LEDs 3, 5, 7, 9, 11 pulse.
3. Press and release "Volume Up" button on the SB1's included remote.
4. Hold your TV's remote 6" - 1' from the sound bar.
5. Press the "Volume Up" button on your TV's IR remote control once.
6. LEARN LEDs 3, 5, 7, 9, 11 turn solid; the command has been learned. Two chimes confirm the command has been learned.

Repeat steps 1-6 to program "Volume Down"(–), Source, Mute and Power buttons.

Important note to save your tv's ir remote commands:
After you've programmed all of the commands on your TV's remote control, press and hold the "Source/Learn" button for 5 seconds. This saves all of the commands.

Note: If your bar fails to learn certain IR remote codes, the power LED will blink red three times. Try erasing any previously programmed codes (see below) and carefully repeat steps 1-6 above.

Code Erasing Procedure:
If you have programmed your Sound bar to respond to a remote control and you no longer want it to do so, erase the codes by pressing the "Source/Learn" button for 10 seconds. Previously learned codes have been successfully erased when the POWER LED flashes green ten times.

Note: This procedure removes ALL of your bar's remote control programming. If you only need to change the programming for some of the bar buttons, follow the six steps in the sequence previously described to redo any previous programming. The Sound bar will continue to respond to the provided credit card remote control.

Connecting Your SB1

Wi-Fi Setup

1. To ensure the easiest setup, place your SB1 near your internet-connected wireless router. Note, when setup is complete, you can move your device anywhere you want to.
2. Connect the included power cable to the SB1 and a power outlet. The device will power on automatically.
3. The white light on the back will blink quickly for about 20 seconds, after which it will begin to pulse slowly.
4. The slowly pulsing light means your device is ready to connect to your Wi-Fi network. *Note: if the Wi-Fi LED is not pulsing slowly, Press and hold the Wi-Fi setup button (for 8 seconds), until you hear the second tone.*
5. Download the Polk Omni App from the Apple App Store or Google Play Store.
6. Launch the app and follow the instructions.

Omni App
for iPhone, iPad and Android devices.

Utility App
for iPhone, iPad and Android devices.

Note: to enable Wi-Fi Protected Setup (WPS) mode with a WPS compatible router, press and hold the Wi-Fi button on the SB1 for 4 seconds or until the first beep. Now push the WPS button on your wireless router. The SB1 will automatically connect to your network without the need to enter your password.

Wired Ethernet Connection

A hard-wired Ethernet connection can provide a faster transfer rate than a wireless connection. While Polk Omni Collection products do not have a dedicated Ethernet port, they do have a USB Port. Using an Ethernet adapter for a USB cable, you can connect your products directly to your router.

Connecting the Subwoofer

The SB1 Sound Bar and wireless subwoofer are preset at the factory to work together. As such, the SB1 subwoofer automatically receives the wireless signal from the bar. All you need to do is make sure the subwoofer is plugged in and the main power switched to ON.

Note: If the wireless subwoofer stops receiving an audio signal, follow these instructions to re-establish the connection:

1. Turn off the subwoofer's AC Mains switch.
2. Press and hold the SYNC button on the back of the bar for three seconds.
3. The LED on the back of the bar will blink, indicating that the bar and the subwoofer are ready to be connected.
4. Turn on the subwoofer's AC Mains switch. When the subwoofer LED turns solid green, the bar and subwoofer are connected and ready to use.

Apps

iOS device instructions

1. Launch the Polk Omni app.
2. The app will suggest that a new device is ready to be setup. Click on the device and hit next within the app to take you to setup instruction screens.
3. Exit the Polk Omni app and go to your Settings on your iOS device.
4. Select Wi-Fi. Ensure that Wi-Fi is enabled. Once enabled, choose from the list the device listed with "DTS Play-Fi" in the name.
5. Once selected, exit the settings menu and return to the Polk Omni App to select your wireless network. (if password protected, enter your password)
6. When your device is connected to the network, the Wi-Fi light will change from blinking to a solid white.
7. You're connected! From here, feel free to rename your device with one of the preset names, create your own custom name, or skip right to enjoying music.

Android device instructions

1. Launch the Polk Omni app.
2. The app will automatically find your device and prompt you to set it up. Tap the "Set up" button.
3. If your Wi-Fi network is protected, enter the password. The app will connect the device to the network.
4. When your device is connected to the network, the Wi-Fi light will change from blinking to a solid white.
5. You're connected! From here, feel free to rename your device with one of the preset names, create your own custom name, or skip right to enjoying music.

Polk Omni Utility App

For access to extended functionality, including Product Firmware Updates, Source Selection, and EQ Settings (Polk Omni A1 Amp and Omni P1 adapt only when paired with Polk Audio speakers), download the free Polk Omni App, available from the App Store or Google Play Store.

Note: This app is not required for daily music streaming use.

Downloading the DTS Play-Fi PC App

- Visit https://Play-Fi.com/windows/polk
- Click on "Download Free Version"
- Once downloaded to PC, DTS Play-Fi logo will show up in your Task Manager.
- Click on DTS Play-Fi driver
- Click on any zone to begin controlling.

Call the Polk Preferred Services @ 1-800-638-7276 to find out how to upgrade to the Premium Play-PC driver for multi-zone control capabilities.

Working with NAS Drives, PCs, and Mac Devices

The Polk Omni App is capable of recognizing any Media Server or NAS drive that is broadcasting over your home network and that's configured for open access using the DLNA protocol. Using the DTS Play-Fi Windows app, the Polk Omni Collection products will play any file capable of being played by the Windows operating system, including all music services. See "Downloading the DTS Play-Fi PC App" above to learn more.

Because OSX devices don't support DLNA, a third party software (ex. Twonky, Plex or Servio) must be downloaded for them to be visible to the network. Once downloaded, all locally stored content on OSX-based devices will show up within the Polk Omni App under "Media Server."

Playing Music

Now that you're connected, open the Polk Omni app to begin playing music. To begin playing music, start by selecting the preferred music source. The next step is to select the device(s) from which you want to hear the music. When done, click "Next." You can now select the music you want to play.

Music choices to select from include:

Your personal music library- hear all the music stored on your phone, tablet or computer through your Polk Omni products and all throughout your home.

Internet Radio- Enjoy radio stations from around the world, in virtually any genre, and all of it free. Internet Radio has 37,000 stations with popular brands like Disney, BBC, NPR, Fox News Radio, Wall Street Journal Radio and more.

Online music services- Stream the most popular online music services including Pandora and Songza. For the most updated list of music services, visit www.polkaudio.com. Services like KKBox, QQMusic and Deezer are available internationally in select countries.

Adding another speaker or component

Adding to your Polk Omni Collection is easy

The Omni Collection makes creating a whole house wireless music system as simple as pushing a button or two. Add more S2 speakers, a sound bar, an amp or adapter to an existing audio system.

- From the Omni App home page, choose "Settings."
- From the "Settings" screen, choose "Add DTS Play-Fi Device."
- Follow the app's instructions to add the device to your list.

Maximum number of rooms/zone supported:

Eight separate wireless source devices (smartphones, tablets, etc.), each with its own source, are supported simultaneously and any wireless source device can stream to 8 playback devices. Due to bandwidth limitations of most wireless networks, we do not recommend more than 16 wireless DTS Play-Fi products on the Wi-Fi network at a given time. With hard-wired Ethernet connections (customary for audio/video racks or in custom installation configurations), up to 256 devices can be theoretically supported. Call the Polk Preferred Services @ 1-800-638-7276 for more information.

Primary vs. Secondary Speakers

Once inside the Polk Omni app, you will notice that when sending music to your devices, they are grouped into primary and secondary zones. The DTS Play-Fi software requires that a primary speaker be selected to create a new listening session or zone. This is designed to maximize synchronization down to one millisecond thereby eliminating any sound echo that can be found from other ecosystems.

Our recommendation for your listening environment is to always select as your primary device the DTS Play-Fi enabled product with the strongest signal strength. Note, however, that secondary speakers are connected to your primary speaker. As such, if you disable your primary speaker, any secondary speakers will likewise be temporarily disabled until a primary speakers is once again selected.

SB1 Specifications	
Sound Bar Dimensions	2.17" H x 43" W x 3.6" D (55.1 mm x 1092.2 mm x 91.4 mm)
Subwoofer Dimensions	4.3" H (w feet) x 13.7" W x 11.61" D (362.2 mm x 347.9 mm x 294.8 mm)
Sound Bar	Three 3" x 1" full range drivers (63.5 mm)
Wireless Connectivity	2.4GHz & 5.8GHz
Total System Power	350 Watts
Inputs	Optical, two 1/8" analog
Included in Box	6' analog cable, 6' optical cable, remote control (battery included), power supply and cables
Warranty	3 years speaker, 1 year electronics

Dual-Band Capabilities

The Polk Omni Collection products all have "dual-band" capabilities. The most standard wireless band – 2.4 GHz – can often times be congested and slow, especially in environments where you have many routers sending wireless signals (ex. mixed-use developments like apartment buildings). In these instances, the Omni Collection can also jump onto the 5 GHz band.

DTS Play-Fi Accepted File Formats:

- mp3 (MPEG Layer III)
- m4a and aac (Advanced Audio Coding)
- flac (Free Lossless Audio Codec)
- wav (Waveform Audio File)

File Quality:

- Lossless file reproduction up to 16-bit/48kHz (CD Quality) and proper file handling for full compatibility with all high-resolution music up to 24bit/192k.
- Plays all format bitrates [kbps]. DTS Play-Fi transmits high-resolution files, but it does down-sample them so that they can be distributed throughout a home.

Software Updates

In the spirit of improving the performance and functionality of your system, software updates will be required from time to time. To download those updates, we highly encourage you to register your Polk product during the setup process. On the home page of the app, scroll down to "Preferred Services" and follow the listed instructions.

Basic Troubleshooting

Under "Settings" on the Omni App home page, you will find a category called Troubleshooting. This link will take you to the DTS Play-Fi Knowledge Base https://Play-Fi.com/faq?/support. Note that quite often an issue can be traced back to router or network performance. As always, for help answering any of your questions, please call the Polk Preferred Services @ 1-800-638-7276.

Important Note: Router speeds and ranges that a manufacturer lists are determined under ideal operating conditions. A router's signal can be affected by walls and their construction materials.

Troubleshooting FAQs

The bar does not power on.

- Ensure you have plugged the power supply into a live wall outlet.
- Ensure that all components of the power supply are connected properly.
- Ensure the power supply is properly connected to the bar power input.

No sound from the bar.

- Check that the TV or cable box is providing a signal.
- If necessary, check using an alternate source.
- Check that the bar is receiving power and is turned on.
- Turn up the volume of the bar.
- Check the input cables to make sure they are connected securely.
- Turn up the volume of your television or cable box.
- Check mute status: Is the bar status light slowly blinking green? If so, press the Mute button on the bar.

The sound coming from the bar is distorted.

- Try turning down the volume of your audio source, if possible.
- Audio processing—there may be audio processing occurring prior to reaching the bar. Disable this processing.

The included remote control won't work.

- Ensure the battery's protective plastic tab has been removed.
- Replace the battery (CR2025). The bar won't learn my remote control commands.
- Carefully follow the programming instructions on the previous page of this manual.
- Hold the remote steady and 1-2 feet from the front of the bar.
- Quickly "tap" the button on your existing remote until the status LED blinks green. *Note: The bar learns almost all IR commands, but some IR protocols cannot be programmed.*

The volume of my television speakers gets louder than my Sound bar system over time.

- Turn off your TV speakers per the instructions on page 4 of this manual.
- When the remote control volume button is held down, your television may change volume levels faster than the bar. Use the buttons on the bar to adjust the volume of the bar to the correct balance with the TV speakers.

Technical Assistance

Thank you for your Polk purchase. If you have a question or comment, please feel free to call us or email us. In North America, call Polk Customer Service 800-377-7655 (M-F, 9:00 AM-5:30 PM EST) or via email polkcs@polkaudio.com. Outside the US, call +1-410-358-3600.

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